

# NEWSLINE

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# 2007 TRANSITION NEWS



## Facility walkdowns march on

During the past two weeks, teams of LLNS and LLNL ES&H and security experts have been conducting “walkdowns” of facilities on the Laboratory’s main site and at Site 300. Walkdowns of LLNL facilities at the Nevada Test Site (NTS) are due to begin on Monday, Aug. 13.

“So far, things are going well,” said Anita Gursahani, LLNL transition lead for Facilities and Infrastructure. “We’ve been receiving great support and cooperation from program personnel, facility staff and vault custodians. Several times, walkdown teams have been ahead of schedule, and we’ve had to move facilities up for earlier times or days.”

The purpose of these walkdowns is to assess the condition of Laboratory buildings, facilities and other infrastructure in order to identify any pre-existing issues that LLNS will be assuming as of Oct. 1. The goal is to walk down all of the buildings that have hazard classification level rankings of moderate and higher plus a number of office, light science and industry, and low hazard-rated facilities as well.

There are six walkdown teams: nuclear/radiological, high explosives/Site 300, programmatic, infrastructure, NTS, and security vaults. The teams are comprised of five to six people and led by a LLNS individual; all team members are Q-cleared and trained in proper safety and security procedures. Facility Points of Contact or other facility representatives accompany the teams. On occasion, Livermore Site Office staff joins some of the teams in an oversight.

The walkdowns began last week and will continue through Aug. 21. Considerable effort is being taken to ensure that they do not interfere with programmatic activities. Walkdowns are performed Monday through Friday (except at Site 300 and NTS) between 8:15 a.m. and 4 p.m. Daily debriefs are held at 5 p.m. for facility managers of the buildings that were walked that day, so that any serious issues identified may be promptly resolved by the incumbent team.

As of Wednesday, Aug. 8, 120 buildings, several transportainers and tents, for a total of 2,372,835 gross square feet, have been walked down.

According to Albert Lamarre, LLNL transition lead for ES&H, most of the issues identified are relatively straightforward to resolve. For example, in one

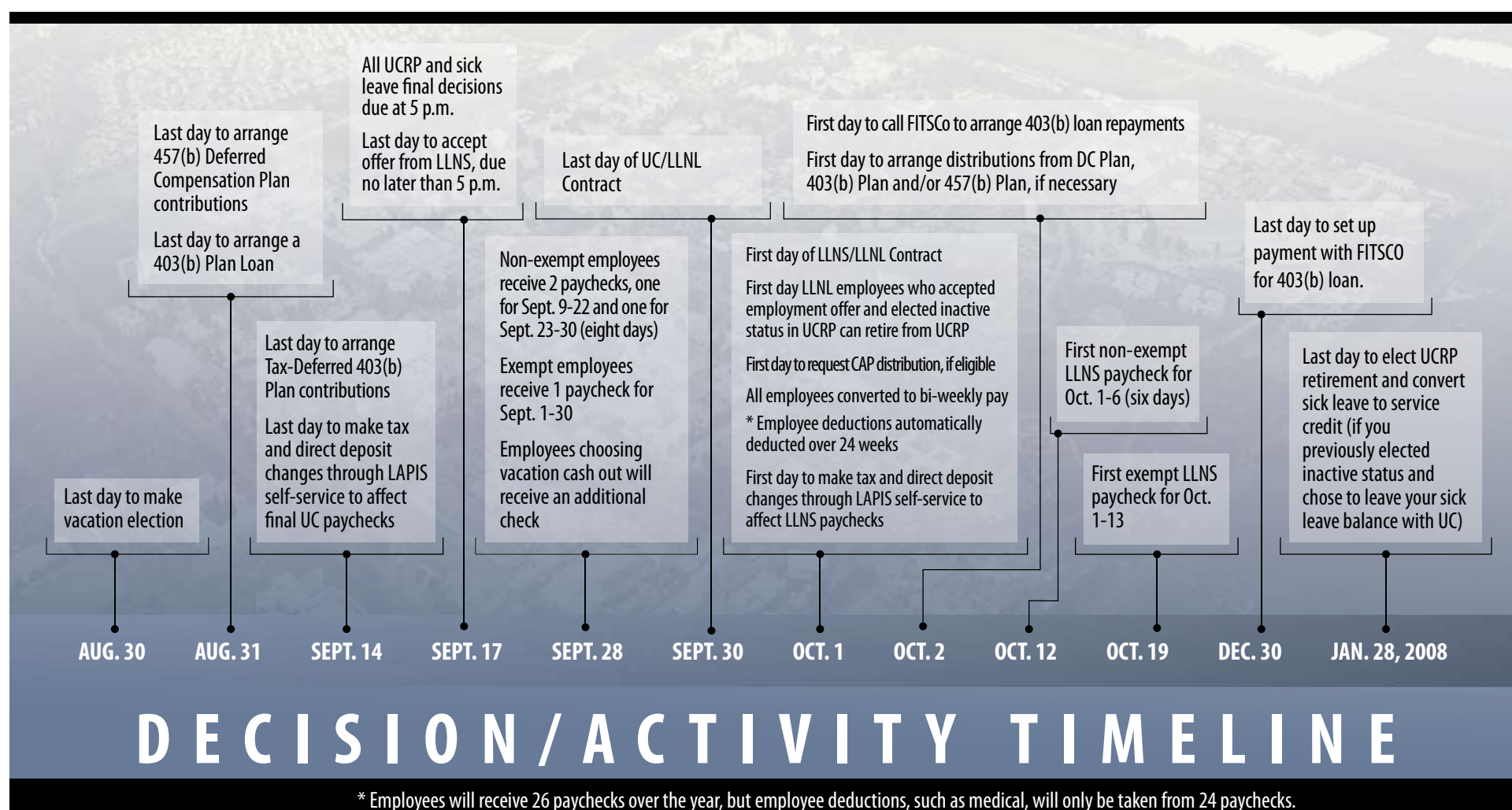


PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

**Hazards Control’s Pete La Curtis and other members of the walkdown teams work out of the old South Cafeteria to compile their notes after each day’s facility walkdowns.**

building, the walkdown team found a designated exit door that was stuck. Other issues have included deficiencies in labeling and matters related to industrial safety and hygiene.

As in all Laboratory activities, safety and security are paramount in these walkdowns. Employees who observe unsafe, unsecure, or noncompliant activities should stop facility entry or halt a walkdown in progress and contact Gursahani (3-4955) or Lamarre (2-0757).



## Deadlines and resources for making transition decisions

As we approach the transition of employment to Lawrence Livermore National Security, LLC, there still are important decisions and actions we need to take to close out our employment with the University of California. Over the next two months, I will use my column to remind you of approaching deadlines, the choices you have to consider and where you can get additional information or help.



**A MESSAGE  
TO EMPLOYEES**  
—Barbara Peterson

### Vacation balance

Employees have until Thursday, Aug. 30, to make a decision on whether to:

1. Transfer all accrued vacation as of Sept. 30, 2007 to LLNS.
2. Cash out their vacation balance as of Sept. 30 with no deferral. Please note that vacation cash-outs with no deferral are subject to FICA and Medicare taxes if applicable, and mandatory supplemental tax withholding rates (currently 25 percent federal and 6 percent California).
3. Cash-out vacation balance as of Sept. 30 with deferral. Under this option employees may elect to defer a portion of their cash-out value (subject to IRS limitations) to one or more of their UC retirement savings plans:
  - Contribute a portion of the cash-out to their UC Tax-Deferred 403(b) Plan (subject to IRS limitations);
  - Contribute a portion of the cash-out to their before tax UC 457(b) Deferred Compensation Plan (subject to IRS limitations);
  - Contribute a portion of the cash-out to their UC Defined Contribution After-Tax account (subject to IRS limitations); or,
  - Contribute a portion to a combination of the above UC retirement savings plans (subject to IRS limitations).

Please note that vacation cash-outs, including portions deferred to retirement plans, are subject to FICA and Medicare taxes if applicable; and portions not deferred to 403(b) or 457(b) before tax retirement plans are subject to mandatory supplemental tax withholding rates.

To make your vacation balance selection, use LAPIS Self Service at the following link: <https://psapp.llnl.gov/psp/ps89prd/?cmd=login>. After logging in, click on Self Service,

Transition Center, Transition Vacation Election.

### 403(b) loan application

Employees have until Friday, Aug. 31, to initiate a new 403(b) Plan loan. You may not initiate a new 403(b) Plan loan after this date. To apply, contact FITSCo at 1-866-682-7787 or visit [www.netbenefits.com](http://www.netbenefits.com). Please note if

you currently have a 403(b) Plan loan or you apply for a new 403(b) Plan loan by Aug. 31, you will have to make additional decisions regarding your payment of the loan after Sept. 30. Your options are to repay the outstanding balance in full, or arrange monthly electronic funds transfers with FITSCo. Loan repayment terms will not change.

### 457(b) contributions

Employees have until Friday, Aug. 31, to start or change contributions to the 457(b) Plan. Note that contribution changes and new enrollments for the 457(b) Plan affect the following month's earnings. Enrollments and/or changes will be reflected beginning on your Sept. 14 paycheck if you are currently paid bi-weekly, or your Sept. 28 paycheck if you are paid monthly. Please note you may contribute to the 457(b) Plan only for the duration of the UC contract ending on Sept. 30.

To enroll or change contributions, contact FITSCo at 1-866-682-7787 or visit [www.netbenefits.com](http://www.netbenefits.com).

### CalPERS long-term care

Employees have until Friday, Aug. 31, to enroll in the CalPERS long-term care program if they choose. Note: employees currently enrolled in the CalPERS long-term care plan and those choosing to enroll in it by Aug. 31, can continue in this plan after transition. LLNS will offer a new provider for long-term care after Oct. 1. To enroll in CalPERS long-term care contact [www.calpers.ca.gov](http://www.calpers.ca.gov).

With the people, places and processes phases of our transition in full swing, this can be an overwhelming time for all of us. It is important to remember to continue to work safely and securely, and to take the time to carefully consider the decisions each of us must make. As always, I will continue to provide up-to-date information as soon as it becomes available.

## TRANSITION REMINDERS

### VACATION ELECTION

A vacation cash-out decision must be made by Aug. 30. For employees continuing employment with LLNS, they may either cash out their UC vacation balance in full, carry over their accrued vacations hours to LLNS or cash out the balance in full and defer it to a tax-exempt account. No partial cash-outs or carry-overs will be allowed.

Employees who opt to cash out their vacation are subject to tax withholding of 25 percent federal and 6 percent state tax rate. Employees also may cash out their vacation but defer it to one or more of their UC retirement savings plans (subject to IRS limitations). These tax deferred amounts cannot be 100 percent of an employee's vacation cash out because it is subject to FICA and Medicare tax.

A vacation cash-out calculator is available on the Livermore Payroll Website, <https://www.cfo-llnl.gov/organization.ad/pr/>, to help estimate cash-outs and potential tax impacts; however, employees are urged to weigh their options carefully and discuss potential tax consequences with their tax advisers or the Internal Revenue Service.

To make a vacation election, go to LAPIS at <http://www-r.llnl.gov/lapis>.

### 457(b) CHANGES

Employees must make any last changes including starting contributions to their 457(b) by Aug. 31. The changes will affect the final UC paycheck for employees who contribute to the 457(b).

### 403(B) LOANS

Employees who plan to take a loan from their 403(b) must do so by Aug. 31. Employees have until Sept. 14 to make any last changes to their 403(b) contributions. In addition, Sept. 14 is the last day to make tax and direct deposit changes to affect the final UC paychecks through LAPIS at <http://www-r.llnl.gov/lapis>.

## Retirees pack presentations on benefits by LLNS and UC

Several hundred retirees attended benefits presentations put on by Lawrence Livermore National Security, LLC (LLNS) and University of California representatives earlier this week. Lynn Soderstrom of LLNS and Judy Ackerhalt of UC hosted retirees on Tuesday and Wednesday morning at La Quinta Inn in Livermore. In addition to the presentations, retirees also had the opportunity to ask questions.

Meetings continue next week on Tuesday, Aug. 14, from 9-11 a.m., and Wednesday, Aug. 15, from 6:30-8:30 p.m., at the Shrine Event Center in Livermore, 170 Lindbergh Ave., just off Airway Blvd. and the 580 freeway.

Retirees are encouraged to print out LLNS retiree benefit presentation and the UC retiree benefit presentation, which can be found at <http://www.llnl.gov/llnl/transition/index.jsp>, and bring them to the meetings. There also is a retiree resource document on the Website.

Benefits information is available on the LLNS Website at <http://www.llnslc.com>. Employees also may ask questions via this Website or by calling the LLNS hotline at 4-LLNS (5567).

The UC Customer Service Center at 1-800-888-8267 or the LLNL Benefits hotline at 2-9955 is available for questions on UC benefits.



PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

At right, Judy Ackerhalt of UC discusses benefits with LLNL retirees.

# Lab to work with Algerian scientists under DOE program

By Don Johnston  
Newsline staff writer

Algeria becomes the latest North African country to join DOE's Sister Lab Program, created to establish cooperation with countries developing nuclear energy for peaceful purposes under the Treaty on Nonproliferation of Nuclear Weapons (NPT). DOE's National Nuclear Security Administration (NNSA) has designated Livermore as the lead Laboratory for the North African sister lab program, which also includes Egypt, Libya and Morocco.

The Laboratory will work with the Algerian scientists in providing technical assistance in the peaceful uses of nuclear application under a "sister lab" arrangement recently signed between DOE/NNSA and the Algerian Ministry of Energy and Mines.

"The agreement is a win-win for everyone involved. This will benefit the people of Algeria and serve to strengthen global security and United States' nonproliferation goals," said Mo Bissani of the Nonproliferation Homeland and International Security (NHI) Directorate and manager of the Sister Lab Program. "There is a great deal of excitement in Algeria about this relationship. It was front page news in the Algerian media."

Bissani also leads the Laboratory's Materials Protection, Control and Accounting (MPC&A) and the Global Threat Reduction (GTR) Program, a multi-lab NNSA effort dedicated to preventing the theft or diversion of nuclear weapons and related material by securing, consolidating and reducing stocks of weapons grade fissile material.

Areas of collaboration with the Algerians will include: research reactor operation; radiation protection; health physics; radiological controls; waste

management; and environmental monitoring. "The Algerian nuclear program has been there for many years," Bissani said. "They're pretty advanced in tools, capabilities and expertise."

As an initial step, experts from Livermore and Oak Ridge National Laboratory will evaluate existing Algerian capabilities and conduct a 'gap' analysis "to get them where they want to be" relative to international standards. While Livermore is the lead Lab, the program calls for needed expertise to be drawn from other national labs as well as academia.

"The sister lab program draws on the breadth of expertise at Livermore as well as other parts of the complex," Bissani said, noting that the program involves specialists from the Nonproliferation, Homeland and International Security, Chemistry Materials and Life Sciences, Earth and Environmental Sciences, Safety and Environmental Protection as well as the Environmental Protection Department and Hazards Control.

Action sheets will be completed defining each proposed area of collaboration with COMENA, the Algerian Atomic Energy Commission. The collaboration will involve exchanges with U.S. experts going to Algeria and Algerian scientists later coming to the United States for specialized training.

The U.S. delegates, including Bissani, who went to Algeria to sign the agreement, were among the first foreigners to ever visit the country's isolated 15MW heavy-water nuclear research center in the Sahara desert.

"We're building the relationship as we go. It's imperative that we think through what we're doing and that we build trust for the long term," Bissani said.

See **ALGERIA**, page 8

## Hands on experience at Lab for Moroccan nuclear scientist

Moroccan nuclear scientist Tahar El Khoukhi recently completed a week of technical training at the Laboratory in managing an environmental monitoring program as part of DOE's Sister Laboratory Program.

Morocco is poised to start up its TRIGA Mark II research reactor at the Nuclear Studies Center of Maamora, a modern research facility built in strict conformity to international nuclear safety standards and run by the National Center of Energy, Sciences and Nuclear Techniques (CNESTEN), the country's equivalent to a U.S. national laboratory.

The research reactor will be used for such civilian purposes as basic science and research, industrial applications, medical isotope production and to lay the groundwork for nuclear generated electrical power.

El Khoukhi was at LLNL as part of an effort to enhance chemical and radiochemical analysis programs that are a part of CNESTEN's environmental survey program and to establish a quality management plan for analytical and radioanalytical laboratories responsible for environmental monitoring.

"Our goal is to obtain accreditation by the International Standards Organization (ISO)," El Khoukhi said. "Livermore is helping us to get a program in place that meets international standards."

He said his visit to Livermore was specifically to work with LLNL's Bryan Bandong on radiobioassay, internal dosimetry and industrial hygiene to provide "practical knowledge" needed to set up and staff environmental monitoring labs;

also to get first-hand experience using the Laboratory Information Management System (LIMS) to facilitate the Moroccan agency's development of a quality management plan.

Bandong, a chemist in Chemistry, Materials and Life Sciences, has made three trips to Morocco to help establish an environmental monitoring quality management program, train CNESTEN personnel and provide guidance in establishing a lab information management system allowing streamlined data

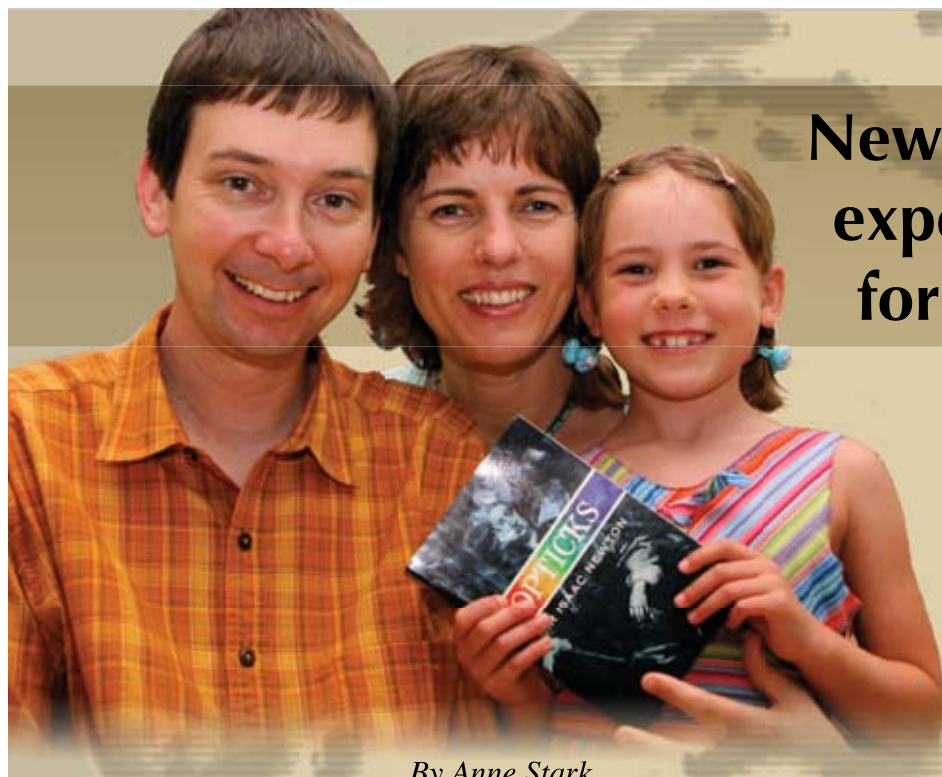
See **MOROCCO VISIT**, page 8



PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

From left: Bryan Bandong, Mo Bissani, Tahar El Khoukhi and Everett Guthrie. Guthrie demonstrates a technique for extracting contaminants from soil for characterization.

## Newton's 'dusty mirror' experiment serves as inspiration for new research



By Anne Stark  
Newsline staff writer

Most people think of Sir Isaac Newton as the father of gravity.

But for Laboratory physicist Henry Chapman and his colleagues, Newton's "dusty mirror" experiment served as a launching pad for them to keenly watch the X-ray induced explosion of microscopic objects.

Using the FLASH soft-X-ray free-electron laser (FEL) in Hamburg, Germany, the team blew up a plastic sphere, but used that same laser pulse to look at the sphere a split second later by placing an X-ray mirror right behind the object. A hologram (three-dimensional image of the object) formed through interference, which was caused when light scattered through the sphere the first time combined with light scattered through the sphere the second time (the light bounced back through the object from the mirror).

"We know from previous work we did at FLASH that the object did not explode during the initial 25-femtosecond pulse, and that forms the known reference wave of the hologram," Chapman said. "The reference wave can be used to determine the unknown object wave, which is actually the same object, but a split second later."

So where does Newton come in?

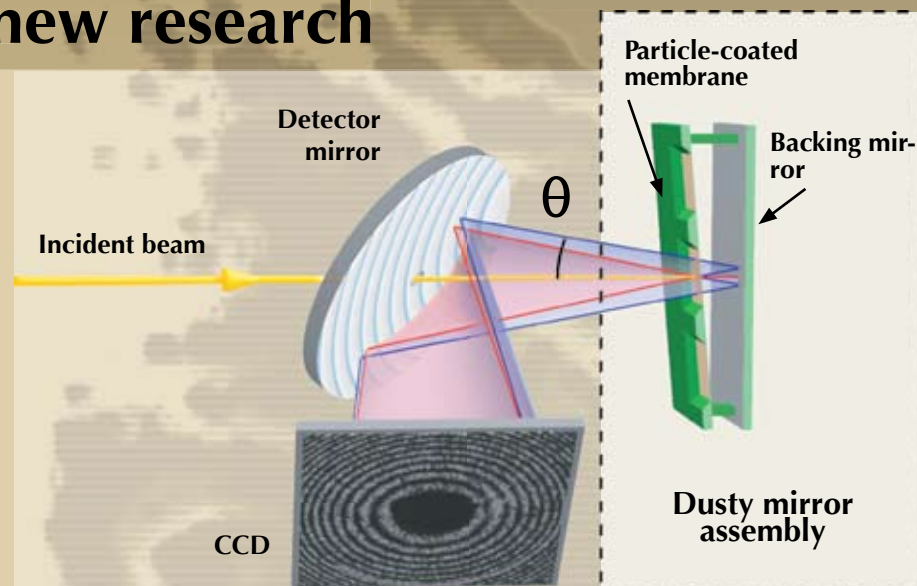
Newton created one of the earliest observations of interference in his "dusty mirror" experiment. In a darkened room, he used a prism and a small hole in a screen to form a quasi-monochromatic beam from sunlight, which he shone onto a back-quick silvered mirror. The mirror was angled to return the beam back through the hole and on the screen. Newton observed dark and light rings of light, which he found "strange and surprising." It was 100 years later when the British scientist Thomas Young determined the rings were caused by interference at the screen between two paths of light scattering from dust particles on the mirror's front surface.

The research appears in the Aug. 9 edition of the journal, *Nature*.

Chapman designed the experiment after visiting the Chabot Space and Science Center with his wife (Saša Bajt, another author on the paper) and daughter (pictured above). There was an optics exhibit that would let you see interference by looking down a long tube, which had a mirror at the bottom. When you held a small penlight close to the eye, you saw colored curved fringes in the mirror's reflection. The exhibit was described as the dusty mirror experiment. "It suddenly struck me that you could do the same thing with short pulses and X-ray mirrors, and it would be really interesting if the X-ray pulse was shorter than the time it takes for it to travel from the dust particle to the back of the mirror and back," Chapman said.

And so the experiment was born.

The experiment is part of LLNL's Laboratory Directed Research and Development project, "Biological Imaging with Fourth-generation Light Sources" to develop the technique and determine the feasibility for single-



The FEL pulse from the left passes through a hole in a multilayer-coated detector mirror. The "dusty mirror" consists of particles on a 20-nm-thick silicon nitride membrane backed by a multilayer-coated plane mirror. This returns the direct beam back through the hole in the detector mirror, which reflects the diffracted light onto a CCD detector. The prompt diffraction (blue, the reference wave) and delayed diffraction (red, the object wave) interfere to generate the hologram on the CCD detector.

molecule imaging experiments to be carried out at the Linac Coherent Light Source (LCLS) at Stanford when it comes on line.

Unlike the static conditions of Newton's experiment, in the recent experiment the object is ultimately vaporized by the X-ray pulse and the object size changes in the brief interval that the pulse takes to reflect back to the particle. The time it takes the pulse to return is encoded in the fringe pattern of the X-ray hologram, and this can be "read out" from the hologram to an accuracy of about 1 femtosecond. Coupled with the short wavelength of X-rays, the measurements give information simultaneously at the highest spatial resolution and time resolution for general noncrystalline materials.

"This experiment allows us to study the dynamics of material in the extreme conditions of intense FEL pulses, both during the pulse and as it turns into plasma," Chapman said.

Plasma is considered to be a fourth state of matter, an ionized gas that has distinct properties. Until the recent experiment, there had been no structural methods to follow the early steps in plasma formation. Understanding these initial processes is crucial to future near atomic-resolution imaging experiments at the Stanford light source. The key is to use short pulses to create the damage and get a high-resolution image of the object before it explodes.

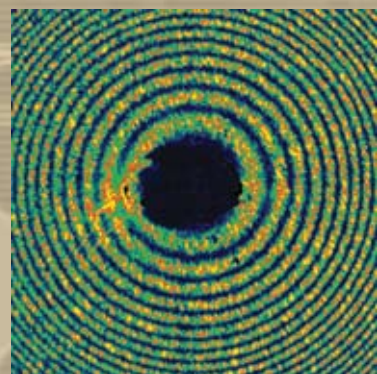
Other Livermore researchers include: Stefan Hau-Riege, Michael Bogan, Anton Barty, Sébastien Boutet, Stefano Marchesini (now at Lawrence Berkeley), Matthias Frank, Bruce Woods, W. Henry Benner, Richard London, Urs Rohner, Abraham Szöke, Eberhard Spiller, Jennifer Alameda, Max Haro, Jeff Robinson and Jackie Crawford.

Researchers from the Center for Biophotonics Science and Technology at UC Davis, the Stanford Linear Accelerator Center, Uppsala University in Sweden, Institut für Optik und Atomare Physik, and Deutsches Elektronen-Synchrotron (DESY) also contributed to the study.

Besides the LDRD funding, this research was supported in part by the National Science Foundation's Center for Biophotonics Science and Technology (CBST) headquartered at the UC Davis Medical Center in Sacramento. CBST is a multi-institutional research center established in 2002 by LLNL and UC Davis researchers.

**“It suddenly struck me that you could do the same thing with short pulses and X-ray mirrors...”**

**-Henry Chapman**



On the cover: A typical two-pass coherent diffraction pattern encoding shape and evolution of an object, as used by Livermore researchers for their nanometer-scale, femtosecond holographic imaging.

i.want ads

Due to the high quantity of ads and space limitations, these want ads have been abbreviated. For the complete ad listings, refer to the internal Website: <http://www-r.llnl.gov/pao/news/wantads.html> or for the latest pdf download and retiree information, see the external Website: <http://www.llnl.gov/pao/employee/>. Please note that these ads appear on the Web. **Date of ads: Approx. Jul. 31 to Aug. 8. Ads appear on the Web for seven days.**

**AUTOMOBILES**

1962 Chevrolet Nova, \$2,800. 283 2-barrel, 195hp, powerglide. 925-455-8302

1990 Honda Accord LX. \$2,000. 4-door. 143K+ miles. 925-828-3268

1992 GMC Vandura customized van. \$2,800 OBO. 74K original miles. 925-980-0120

1994 Tempo. \$1,150. 105K miles. 209-982-5168

1995 Infiniti G20. \$2,600 OBO. 151K miles. 925-215-1744

1995 Jeep Grand Cherokee Laredo. \$3,800 OBO. 2WD, 177K miles. Call Diane, 925-765-4404 (cell).

1996 Chrysler Concord. \$3,900. V6, 3.5L engine, 101K miles. 510-537-0374 or 510-329-1513.

1999 Nissan Maxima. \$5,900. 126K. 209-836-5652

2000 Hyundai Elantra GLS Sedan 4D. \$2,500 OBO. 84K miles. 209-471-7237

2002 Acura RSX-S. \$10,200.140k hwy miles. 209-524-0904

2002 Pontiac Grand AM SE coupe. \$6,200. 73K miles, V6 3.4 liter. 925-961-1196

2002 Volkswagen Jetta 1.8T. \$12,000. 56k. 510-652-1994

2003 Buick Century 4 door sedan. \$7,500. 32K miles. 925 625-4291

2003 Chevy Malibu. \$7,000 obo. 39.3K miles. 925-373-0483

2004 Carrera Cabriolet. \$59,500. 30K miles. 210-865-6009

2004 Chevy Tahoe. \$23,500. Z71 off-road pkg, 50.4K mi. 925-922-6119.

2004 Ford Taurus. \$9,000 OBO. 44K miles. 925-294-9651

2004 Mini Cooper. \$15,600. 4-Cyl. 1.6 Liter, 61K miles. 925-680-9462

2005 Dodge Durango. \$16,000. V8 3rd Seat 38K miles. 925-240-9992

2005 Honda Accord LX. \$13,000 OBO. 60K highway miles. 925-584-1612.

2005 Mazda 3. \$14,999 OBO. 39K. 925-234-5843

2005 Toyota Camry. \$12,500. 209 968-5784

2005 VW Jetta GLI 6-speed, turbo. \$18,500. 48.4K miles. 209-568-6200.

**BICYCLES**

2 Girls Princess bicycles. \$25. Will bring to Lab. 209-815-0046

**ELECTRONIC EQUIPMENT**

20" Magnavox TV. \$60. 510-652-1994

36" Sony Trinitron TV with surround sound. \$750. 209-568-6200.

Digital Video Recorder (DVR/ TIVO). \$50. Two Direct TV receivers, and remotes. 925-443-5549

Futura 18" computer monitor, 17.5". \$30 OBO. Panasonic plain

paper fax/phone/copier. \$50 OBO. 510-792-1538

Hitachi 51G500 51in. HDTV-ready television. \$700. Ask for John. 925-570-3481

Kenwood/TEAC stereo plus speakers. \$40. 925-449-2099

Lexmark X83 color inkjet peinter/ scanner/copier. \$20/obo. 925-449-5481

Mr. Coffee programmable coffeemaker. \$20. 510-652-1994

Sony PSC99 Psyclone Nodus. \$60. 9256480671

Starband 360 satellite internet system. \$30. 510-455-0939

Tektronix 2465 300MHz 4 Channel Oscilloscope. \$300. 925-455-4484

**GIVEAWAY**

Free boxes & packing materials. 925 519-1881

Free futon w/mattress and two covers. Free desk. 925-454-0825

Piano, Upright. Schumann, needs tuning. 925-447-4941

HP Officejet 610, color. Print/scan/ fax. 925-449-5481

Queen mattress and boxspring with foam topper. 925-443-8585

Kenmore 40-gallon gas water heater with insulating blanket. 925-447-7751

**HOUSEHOLD**

Baby items. \$25 each. Graco automatic swing, Exersaucer, Combi travel stroller, wood high chair. All great condition. 925-683-1047

Bassett mission style queen bedroom set. \$800. Frame, headboard, footboard, mattress and boxspring, two night stands and 5-drawer dresser. 209-568-6200.

Beautiful solid wood ladder shelves. \$145. I can easily bring them in for you. 925-640-5469

Stanley bunk beds & trundle. \$375. Mattress and bunky boards for mattress extra, \$50 per set or \$100 for both. 925 519-1881

Twin box spring and in-window air conditioner. \$30/each OBO. 925-960-0313

Serta Grand Sonata cal king mattress. \$200/obo. 925-443-8354

Conair clothes steamer. \$45. 925-443-0126

Custom Ethan Allen curtain. \$150. 925-449-2099

Staffordshire Liberty Blue dinnerware collectable set. \$400. 925-462-2197

4-drawer dark laminate dresser. \$25. 925-628-4875.

Fireplace hearth brick extension. \$50 OBO. 48" x 16." 209-823-9309

Moving sale, lots of furniture. Call for pics and more info. 925-784-2717

Glass and wood display cabinets. \$150 each. 209-568-6200.

Hamilton Beach 2-slot extra wide chrome toaster. \$18. 510-652-1994

Hoover Ultra Steam carpet cleaner. \$45 OBO. 925-443-0126

Mirror. \$30/BO. 24" by 36" with gold frame. 925-447-2905.

Oak dining room table and 6 chairs. \$200/OBO. 925-447-7857

Playskool Peek N Play discovery mat. \$15. 925-648-0671

7' oak pool table. \$1,995. Slate top, comes with solid oak cover and 6 oak chairs. 925-443-3066

Sealy Posturpedic Ashbrook LTD, Ultra Plush Euro pillowtop queen mattress. \$300. No box spring. 917-684-3300

Medium-brown fabric recliner. \$200 OBO. 510-792-1538

Revlon 1875 hairdryer. \$15. 510-652-1994

Shark cordless rechargeable sweeper. \$15. 510-652-1994

Sharp carousel microwave. \$20. 925-449-2099

Sunbeam classic iron. \$10. 510-652-1994

Three Tiffany lamps. \$90. 925-862-0955.

Walnut desk. \$45. 36" X 70" by 30.5" high. One drawer, on casters. Will deliver in Livermore. 925-245-9648

**LOST AND FOUND**

FOUND- men's jacket in bike basket Aug. 3 at East Gate. 4-4725.

**MISCELLANEOUS.**

\$50 Pure Medspa gift certificate. \$25. 925-648-0671

Books. \$100 OBO. Entire collection of the "Left Behind" series by Tim Lahaye. 209-823-9309

Computer desk. \$50. 209-239-5778

Disney Winnie Pooh gardening & wheelbarrow set. \$30. 925-648-0671

Honey maple color entertainment center. \$150 OBO. 510-792-1538

Vinyl woodcore, 6 panel exterior door. Double pane, 2 panel windows, 2 of them. Frameless bathroom mirror. \$50 each. 510-638-1836

File drawers. \$35. 925-640-5469

Fuel tank unit. Best offer / reasonable. 925-735-6002

Multi-family garage sale. Saturday, Aug. 11, 8 a.m.-4 p.m. 2680 Marina Ave., Livermore. 925-455-4846

George F. Crane Co. 12" globe. \$10. 925-245-9648

Graco Baby dual stroller. \$75. 925-784-2717

Kids clothing. \$1 each. 2T, 3T and 4T. Pants, shorts, T-shirts and long sleeve shirts. 925-784-2717

Four child movie certificates for Ratatouille. \$15. 925-648-0671

Four Santa Cruz Beach Boardwalk unlimited ride tickets. \$15/each. 925-648-0671

Skeleton model. \$30. 925-245-9648

Spa, portable Fountain Valley 115v. \$100/obo. Only achieves 100 degrees. 925-443-8585

New tire 205/75/15 w/rim, new. \$75 OBO. 925-735-6002

Tuffy overhead radio console for Jeep. \$100. 209-823-5845.

**MOTORCYCLES**

2005 Yamaha TT-R125E. \$1,600. 209-823-4687

1990 Honda Four Trax quad. \$1,000. 925-447-6784

1971 Ironhead Harley project. \$1,400.Would be a great project for a stock/original or custom. 925-216-5685

2006 Honda CRF150F dirtbike. 209-669-7559

**MUSICAL INSTRUMENTS**

Steel string guitar. \$150. 209-832-5462

MTX Terminator DJ boxed 15" speaker set. \$150. 925-548-0572

Gemeinhardt 2S conservatory flute. \$450. 925-462-2197

Chickering antique studio upright piano. \$2,250 OBO. 925-634-9973

**PETS**

PetSafe bark collar - lemon spray. \$20. 925-455-5672

Dwarf Flag Cichlids. 7 young adults including a breeding pair. 925-408-8187

Electronic pet fence. \$169. 925-785-4680

Free cat to a good home. Buddy is a one-year-old, neutered male, extremely friendly. 925-997-1046

Free Kittens. Black and white, 2 months old. 925-525-5913

**RECREATION EQUIPMENT**

Nordic Track. \$30. 925-829-3226

Marcy weight machine. \$150 OBO. 209-543-9669

Weslo G-30 treadmill. \$100 OBO. . 925/373-1210

**RIDESHARING**

Solano County vanpool beginning Oct 2007. 4-5589

Vanpool. \$160. Leaving Montclair at 7 a.m. Leaves Lab at night at 5:30 p.m. Interested in adding stop along 580. Call 4-6215.

**SHARED HOUSING**

Room. for rent. \$1,100. Private B&B all priv/utl included garage parking pool/spa. 925-321-0753

Furnished Livermore room for rent. \$600. Close to Lab. Non-smoker, F pref. 925 443-3653

Large unfurnished room for rent in Livermore condo. \$600/mo. Home has a small dog and a cat. 925-216-6059

Small furnished room near the Lab. \$450/mo. Available Aug. 10. share utilities + deposit. No pets, smoking, guns, or stereo. Male preferred. 925-455-6044

**TRAILERS**

2005 Fleetwood Sequoia High Wall Tent Trailer. \$9,110. 925-234-5843

2004 Desert Fox 21SW toy hauler. \$18,500. 925-516-8339

Would the gentleman who bought the oak sided, steel frame jeep trailer in Nov. please call me. 209-823-5845.

Craftsmen pull-behind farm utility trailer w/dump bed. \$100. 925-447-6784

1984 Wells Cargo enclosed trailer 6x10. \$1,650. 209-543-9669

**TRUCKS**

1989 K1500 GMC pickup. \$2,500 4.3L V6. 209-823-0246

1993 Chevy S-10 pickup w/camper shell. \$3,000. 120k miles. 925-846-1525.

1995 Dodge 1500 truck. \$4,500. 125K miles. 510-537-0374 or 510-329-1513

2004 GMC Sierra stretch cab. \$18,000 BO. 209-814-2400.

Class V Receiver Hitch hitch. \$50. Weight capacity 500/5000. 209-892-5885

**VACATION RENTALS**

Kona Big Island of Hawaii vacation home. 5 BR/3 BA; sleeps 12 people. 415-377-5361

Maui, HI. Kahana Reef oceanfront 1BR/1BA condo. 925-449-0761

Maui house exchange with similar house in Livermore. 925-443-8354

Arnold mountain cabin. 4 BR/2 BA. 925-245-1114

Santa Cruz beach house. 2 BR/2 BA. 925-245-1114

South Lake Tahoe chalet. 3 BR/ 2 BA. 209-599-4644

South Lake Tahoe vacation rental. \$100/night Sleeps 6 comfortably. \$650/wk. 925-556-9511 if interested.

Wine country rental. Monte Rio. 3 BR/1.5 BA. 925-513-4767

**WANTED**

15 to 20-pound propane bottles, BBQ-style. Nick . 925-513-4767

Quail for Future Farmers of America school project. Button quail or Bob White perferred. 925-449-1294

Special needs babysitter-to babysit 15-year-old boy with autism 2-3 afternoons a week from 3-6 p.m. Call 925-443-3396.

Need Class II rated (3500 lbs drawbar, 1.25 inch square receiver) 209-892-1918

Low priced electric fold-up/ spacesaver treadmill. 925-518-7600

## PEOPLE NEWS

## Lab counterintelligence effort earns another 'excellent' rating

By Jeff Morris,  
SAFE Program

The Laboratory's counterintelligence and counterterrorism program has earned top marks in a U.S. Department of Energy inspection for the second time in a row. The program is named SAFE, for Security Awareness for Employees.

From July 16-25, DOE inspectors rated the program in 12 areas, including management, operations, awareness activities and liaison with other Laboratory organizations.

Inspections are carried out every three years. In the last such inspection, from March 22 to April 1, 2004, SAFE received the first "excellent" rating ever earned by a DOE counterintelligence office. This year, SAFE again was rated "excellent" in 10 out of 12 areas.

At an all-hands meeting on Thursday, July 26, Mike Carter, acting associate director for Nonproliferation, Homeland Security, and International Security, congratulated the SAFE staff on consistently being recognized as an outstanding program by DOE inspectors.

"The inspection provided verification that SAFE is a valuable, effective program at the Laboratory, and that SAFE is doing an outstanding job of conveying that the intelligence and terrorism threats to the Laboratory are real," Carter later



commented. "The inspection also demonstrated that science and security can and do effectively work hand-in-hand."

"The results of the inspection reinforce the confidence that employees have in coming to SAFE, knowing that their concerns will be addressed proactively and objectively," Carter said.

SAFE is the first counterintelligence program established in DOE. It was founded more than 21 years ago following what became known as "the year of the spy." In 1985, a record number of U.S. citizens

were exposed for espionage acts directed against the United States.

In January 1986, LLNL formed SAFE in direct response to a government directive requiring government agencies to establish their own counterintelligence awareness programs.

You can learn more about SAFE by going to <http://www-r.llnl.gov/safe/>. There is information on: counterintelligence, including the counterintelligence case of the month; counterterrorism; foreign visits, assignments and contacts; foreign travel; and protecting business information, including the industrial espionage newsletter, *Tech Transfer Notes*.

## Nuclear Weapons Council visits Lab stockpile stewardship facilities

Providing a whirlwind agenda, Bruce Goodwin, associate director for Defense and Nuclear Technologies, hosted a portion of this year's annual weeklong trip by personnel associated with the Nuclear Weapons Council at the Laboratory.

The group of nearly 60 participants arrived Tuesday evening and were badged at Livermore's Hilton Garden Court Hotel Inn to provide a running start for their agenda the next day.

With logistical support from the Protocol Office, technical point of contact Jim Kapsales of DNT split the group into thirds and organized events so that visitors followed a well orchestrated, agenda with three concurrent tours of Livermore's strategic stockpile stewardship assets: the National Ignition Facility, the stockpile display models from the National Security Vault, and the SuperBlock. Following closing comments by Goodwin, the group was bussed to the Oakland Airport by 4 p.m. en route to their next stop.

The Nuclear Weapons Council is a joint Department of Defense and Department of Energy/National Nuclear Security Administration organization. Congress established the NWC in 1986 to encourage cooperation and coordination between the two departments responsible for U.S. nuclear stockpile management.

The council provides a forum for consensus and priorities. It also provides policy guidance and oversight of stockpile management to ensure high confidence in its safety, security, and reliability.

As an oversight and reporting body the NWC is accountable to both the legislative and executive branches of the government. The council is required to report regularly to the president regarding the safety and reliability of the U.S. stockpile.

The last time that LLNL was included as a stop in the NWC annual trip was in 1995.



PHOTO BY MICHAEL ANTHONY/TID

## ALGERIA, continued from page 4

## A regional perspective

"With DOE we've been taking a strategic look at where we can cooperate and look at ways to promote nonproliferation best practices throughout the region," said Eileen Vergino, program leader for International Engagement. "Serving as the lead lab gives us the opportunity to be at the forefront working with DOE in North Africa."

"This is exciting because these countries are interested in working together on regional issues," Vergino said, adding that regional cooperation will allow states to address concerns such as border security and nonproliferation as well as laying the groundwork for broader scientific collaboration.

The sister lab program helps countries develop expertise in all aspects of running a civilian nuclear energy program by providing guidance to the underpinning science, according to Vergino, who also serves as deputy director of LLNL's Center for Global Security Research.

The national labs have been working collaboratively with scientists in the former Soviet Union for more than a decade on nuclear security and a range of scientific projects, she said. "We're able to leverage our considerable experience with the former Soviet Union and apply a lot of what we have learned to North Africa," she said.

Other countries with sister lab program agreements with DOE include Argentina, Mexico, Thailand, Peru, Romania and Vietnam.

The Laboratory will host a regional workshop, sponsored by DOE/NNSA, the first week of December for the North African sister labs and government officials from those countries and the United States.

Regional cooperation and stability in North Africa are important to the security of Europe and the United States and can also serve U.S. interests in the Middle East by showing the benefits of collaboration, Vergino said.



Algerian and U.S. Department of Energy dignitaries gathered in Algiers after the signing of the sister lab agreement. To the left is LLNL's Mo Bissani with, to his immediate right, Algerian Minister of Energy and Mines Chakib Khalil, and to the far right, U.S. ambassador to Algeria Robert Stephen Ford.

## MOROCCO VISIT, continued from page 4

acquisition, processing and reporting.

On the last day of his recent visit, El Khoukhi provided an update on the Moroccan program to Livermore scientists in a Center for Global Security Research presentation. The sister lab agreement with Morocco was signed in 1994.

"We've made a lot of progress over the last 13 years," said Mo Bissani, manager of the Lab's sister laboratory program. "We have developed a long standing and fruitful working relationship of mutual benefit. We have had approximately 20 expert missions from LLNL to Morocco and hosted a dozen

Moroccan scientists at LLNL and other U.S. national labs and universities for training on radiation protection and health physics, research reactor operation, waste management, ES&H, quality assurance, emergency response, neutron activation, water resources, environmental monitoring, computer code simulations, etc. It has been a productive and rewarding journey for me and all the participating members"

More information about the Moroccan program is available at [www.cnesten.org.ma](http://www.cnesten.org.ma).

## Summer Research Symposium draws a crowd



PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

Talitha Stewart, who in the fall will be a senior at Cal Poly State University, discusses her research "Measurements of H-alpha Power Loss in SSPX" with Don Correll of PAT at the Labwide summer student poster symposium. Stewart is participating in the Aspiring Science Teacher Research Internship, a summer program for future teachers to experience research in a major scientific laboratory. More than 150 students presented their research to hundreds of Lab employees Thursday in the Central Café.



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